

Physiology of Stress – Questions by Topic

Q1.

Outline the main features of the pituitary-adrenal system.

(Total 3 marks)

Q2.

Outline the sympathomedullary pathway.

(Total 3 marks)

Q3.

Outline **one** limitation of the general adaptation syndrome as a model for the physiology of the stress response.

(Total 2 marks)

Q4.

Outline **one** difference between the functions of the hypothalamic pituitary-adrenal system and the sympathomedullary pathway.

(Total 2 marks)

Q5.

Mannie has a well-paid job. However, she worries about work problems all the time, suffers from sleeplessness and always has a cold. Jilly works in the same company doing the same job. Although she works just as hard as Mannie, she does not worry about work and is able to relax quite happily in the evenings and at the weekends. Jilly cannot remember the last time she was ill.

(a) Briefly describe how the endocrine system is involved in mediating and responding to stress. Refer to Mannie **and** Jilly in your answer.

(4)

(b) Outline personal variables which might explain why Mannie and Jilly respond so differently to the same situation.

(4)

(Total 8 marks)